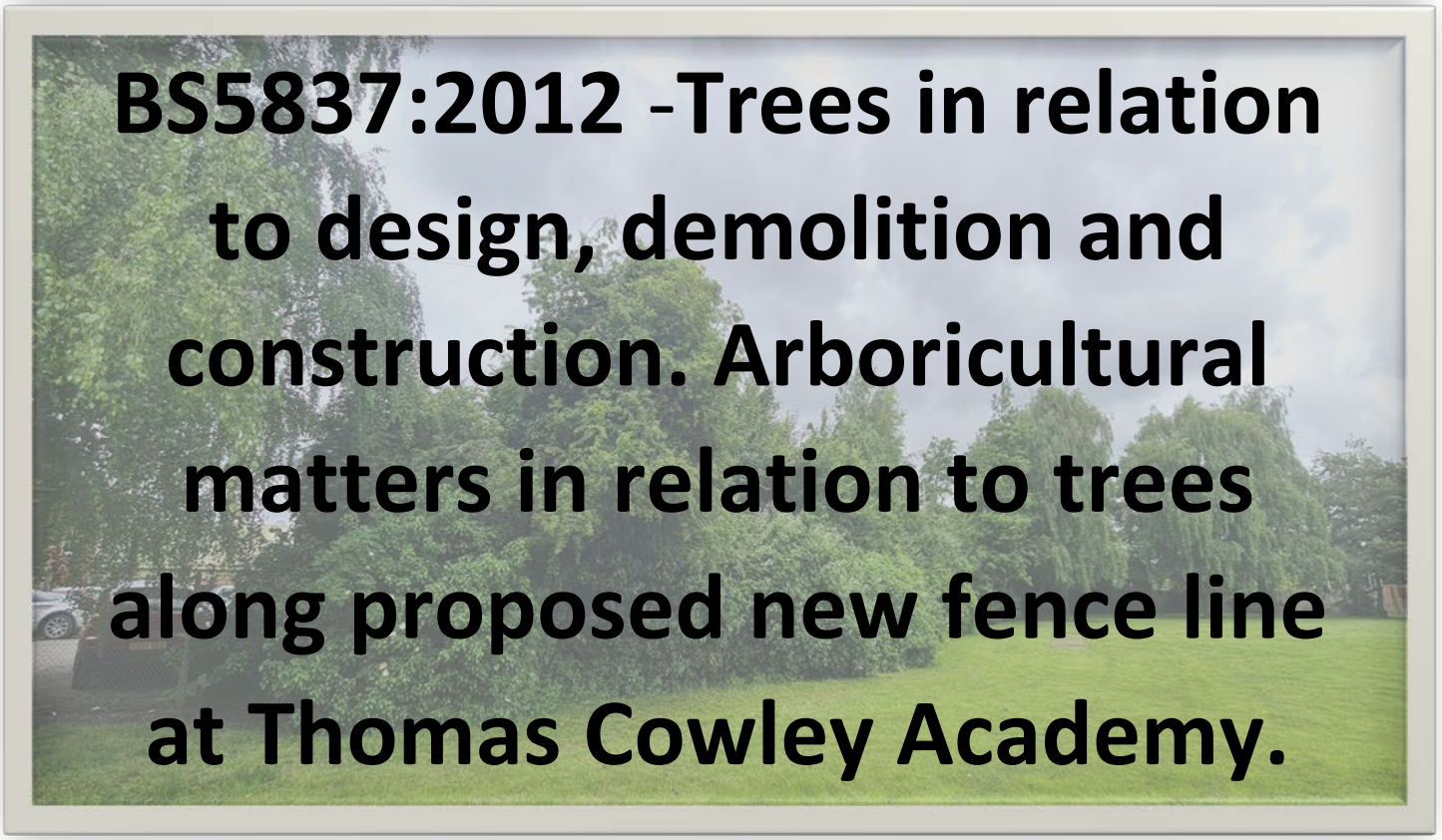


BS5837:2012 -Trees in relation to design, demolition and construction. Arboricultural matters in relation to trees along proposed new fence line at Thomas Cowley Academy.

Prepared by: East Midlands Tree Surveys Ltd.

Date: 05/06/2024

Limitations of use and copyright: All rights in this report are reserved. No part of it may be reproduced or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, or stored in any retrieval system of any nature, without our written permission. Its content and format are for the exclusive use of the addressee in dealing with this site. It may not be sold, lent, hired out or divulged to any third party not directly involved in this site without the written consent of East Midlands Tree Surveys.

East Midlands Tree Surveys

1. Instructions

2. Information supplied

3. Introduction

4. Site description

5. Tree survey findings

6. Arboricultural Impact Assessment.

7. Arboricultural Method Statement.

7.1 Sequenced Methods of Demolition, Construction and Tree Protection

7.2 Phase 1 – Undertake tree works.

7.3 Phase 2 – Fence line mark out & installation.

Appendix 1. Tree survey data

Appendix 2. Tree Constraints/Arb Impact Assessment Plan

Appendix 3. Site photos



1. Instructions

This report was commissioned by Thomas Cowley Academy with instruction to carry out an inspection of trees located at the above address in line with *BS5837:2012 Trees in relation to design, demolition and construction - Recommendations.*

The objectives of this report are as follows:

1. To make an assessment of the trees' condition and identify any faults.
2. To provide an Arb Impact Assessment with tree protection measures and an Arb Method Statement in line with BS5837:2012.

2. Information supplied

EMTS were supplied with the following documents.

Title	Format	Provider
6637_proposed New Fence Line_A1@500	PDF	Thomas Cowley Academy

Our plans are based on the above PDF file which was imported into our mapping software for revision.

3. Introduction

This document has been prepared to fulfil the requirements for the proposal in accordance with the Department for Communities and Local Government guidance on information requirements and validation and is set out in compliance with British Standard 5837 Trees in relation to design, demolition and construction recommendations 2012.

The initial tree survey is considered to be compliant with BS5837:2012.

All trees considered likely to be affected by the proposal were surveyed and the details are given in Appendix 1 Table.

A copy of the proposed layout has been provided.

Whilst the plans within this report are all to scale in terms of visual presentation, it is not possible to measure within each plan.

The tree numbers referred to in this report are the same as shown on the tree survey schedule and plan.

Only those trees directly implicated by the proposed installation have been assessed.

Due to the low numbers of trees, no tags were affixed.



This report addresses the arboricultural issues relating to the proposed development at the above site and identifies the arboricultural implications of the proposed development with a view to protecting the trees during the construction works by setting out the tree protection methods, construction techniques and working practices that are to be adopted on this site.

If all the guidelines and principles outlined in this report are not adhered to, as with all development sites, there is a risk that the construction activities will result in damage to and potentially the death of the retained trees. Damage to the trees will significantly increase the risk of their health declining and may increase the risk of their complete or partial failure.

The success of the recommendations set out in this report is dependent on the development adhering to the principles set out within, which are to be approved and enforced by the Local Planning Authority (LPA). If the recommendations contained within this document are acceptable to the LPA then it is suggested that they be controlled by standard planning conditions.

This report has been prepared to meet planning requirements and as such is not considered to be a condition survey, any obvious actionable defects will however be picked up as part of the assessment.

4. Site description

The site comprises a school playing field with perimeter trees to the north and nw. The fence line will run alongside these trees.

5. Tree survey findings

The tree details can be found at Appendix 1.

The trees appear to be in reasonable condition with no significant defects noted.

The annotated site photos at Appendix 3 show the approximate fence line run in red.

6. Arboricultural Impact Assessment.

The Arb Impact Assessment plan can be found at Appendix 2 and shows the RPAs plotted as yellow circles.

The proposed fence line passes through the RPAs of most of the individual trees assessed and through G1.

There will be the need to hand dig the holes within the RPAs and crown lift some of the trees.

The majority of the vegetation at G1 is in fact growing from outside the site into site and is in the most part, ivy.

Due to access, it was not possible to determine the positions of any of the individual trees outside the site boundary.

It is a given however that the fence run will be within the RPAs of these trees as well.

Any posts falling within the RPAs will be hand dug and if any roots greater than 25mm are encountered, the holes will be repositioned.

G1 will be pruned back to the legal boundary.

Any fence post holes within the RPAs will be lined with polythene as concrete is toxic to tree roots.

There will be no need for any machinery to be positioned within the RPAs, panels will be carried into the RPA areas by hand.

7. Arboricultural Method Statement.

7.1 Sequenced Methods of Demolition, Construction and Tree Protection

With reference to relevant published guidance, the methodology of this statement follows a logical sequence essential to the efficacy of the protection measures. Reference may include: British Standard BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations; British Standard BS3998:2010 Tree Work. It is essential to the successful implementation of the principles set out in this document that effective supervision and enforcement are put in place from the outset.

7.2 Phase 1 – Undertake tree works.

Carry out the crown lifts, epicormic removals as per the Tree Survey Data table and remove the single Hawthorn in G1.

Tree work requires skilled operators to perform pruning tasks in order to maintain the health and safe useful life expectancy of the trees, it is strongly recommended that construction staff DO NOT carry out any tree works.

Additional to this, a legal Duty of Care requires that all works specified should be carried out by qualified arboricultural contractors who have been competency tested to determine their suitability for such works in line with Health and Safety Executive guidelines. All works should be carried out in accordance with British Standard BS3998:2010 Recommendations for Tree Work.

Particular care needs to be addressed in dealing with legally protected species such as nesting birds and roosting bats which are protected under the Wildlife and Countryside Act 1981 (as amended) from intentional harm and killing and applies to roosting and hibernating bats and active bird nests. The protection of bird nests applies between mid-February to August inclusive.

7.3 Phase 2 – Fence line mark out & installation.

The RPAs of all the trees assessed will be paint marked out on site as circles with the trunks as centres - the radius measurements can be found at Appendix 1.

Any holes located within the RPAs will be hand dug and the holes lined with polythene.

An arboriculturist should be consulted where required during the construction process to address any issues that might arise regarding tree retention, protection, and management. It is the responsibility of the site owner, manager, and main contractor to ensure that any tree protection or other relevant planning conditions, or TPO's are adhered to. A breach of a planning condition or TPO may result in enforcement action by the LA.



05/06/2024

John Wilcockson – Director, East Midlands Tree Surveys LTD.

Tech Cert (Arbor A), NDF For



Appendix 1 - Tree Survey Data



BS5837 Report

South Lincs Academy Trust
Proposed new fence line Thomas Cowley Academy

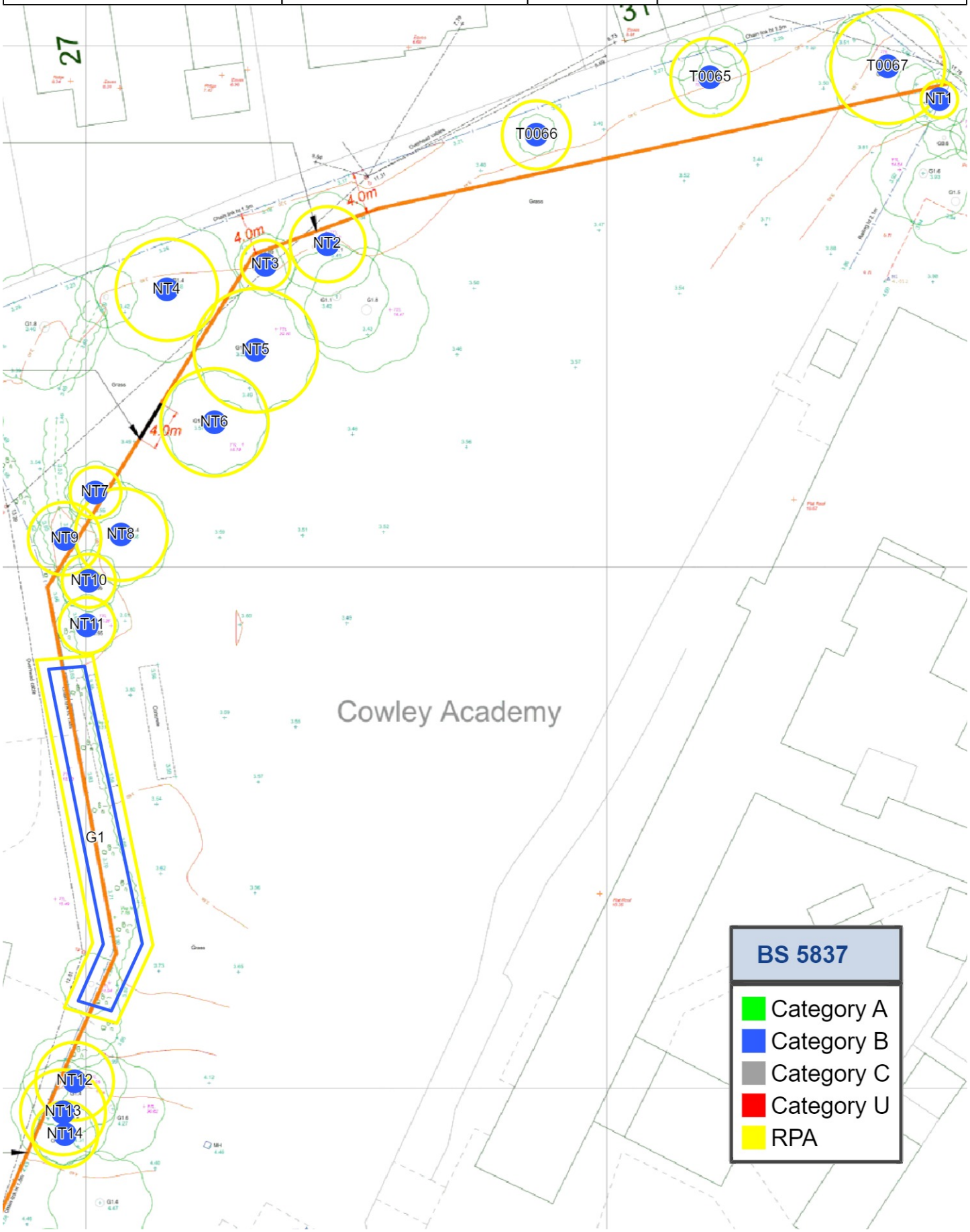
Retention Category	No. trees	Rem. Contrib.	No. trees
B	18	40+ Years	18
Total	18		

Ref.	Species	Full Structure	Measurements	Survey Notes	Retention Category	RPA	Condition	Recommendations
NT1	Alder *(Alnus sp.)*	Tree	Stem Diam(mm): 150 Crown Clearance (m): 4 Life Stage: Semi Mature Rem. Contrib.: 40+ Years	Trunk - ivy/climber	B1,2	Radius: 1.8m. Area: 10 sq m.	Physiological Cond: Good Structural Cond: Good Public Visual Amenity value: High	Sever ivy at base.
T0065	Hawthorn *(Crataegus sp.)*	Tree 2 stems	2 stems (mm): 200,250 Crown Clearance (m): 1 Life Stage: Early Mature Rem. Contrib.: 40+ Years	Crown - low branches	B1,2	Radius: 3.8m. Area: 45 sq m.	Physiological Cond: Good Structural Cond: Good Public Visual Amenity value: High	No action required.
T0066	Hawthorn *(Crataegus sp.)*	Tree 4 stems	4 stems (mm): 170,150,110,120 Crown Clearance (m): 2 Life Stage: Mature Rem. Contrib.: 40+ Years	Crown - low branches	B1,2	Radius: 3.3m. Area: 34 sq m.	Physiological Cond: Good Structural Cond: Good Public Visual Amenity value: High	Laterally prune if required to clear proposed fence line
T0067	Birch *(Betula sp.)*	Tree	Stem Diam(mm): 470 Crown Clearance (m): 1.5 Life Stage: Semi Mature Rem. Contrib.: 40+ Years	Crown - low branches	B1,2	Radius: 5.6m. Area: 99 sq m.	Physiological Cond: Good Structural Cond: Good Public Visual Amenity value: High	Crown lift to 3 metres
NT2	Alder *(Alnus sp.)*	Tree	Stem Diam(mm): 310 Crown Clearance (m): 0 Life Stage: Semi Mature Rem. Contrib.: 40+ Years	Crown - low branches Trunk - epicormics/suckers	B1,2	Radius: 3.7m. Area: 43 sq m.	Physiological Cond: Good Structural Cond: Good Public Visual Amenity value: High	Epicormic removal Crown lift to 3 metres
NT3	Hawthorn *(Crataegus sp.)*	Tree	Stem Diam(mm): 200 Crown Clearance (m): 4 Life Stage: Mature Rem. Contrib.: 40+ Years	Trunk - epicormics/suckers	B1,2	Radius: 2.4m. Area: 18 sq m.	Physiological Cond: Good Structural Cond: Good Public Visual Amenity value: High	Epicormic removal.
NT4	Alder *(Alnus sp.)*	Tree	Stem Diam(mm): 420 Crown Clearance (m): 2.5 Life Stage: Semi Mature Rem. Contrib.: 40+ Years	Trunk - epicormics/suckers Crown - low branches	B1,2	Radius: 5.0m. Area: 79 sq m.	Physiological Cond: Good Structural Cond: Good Public Visual Amenity value: High	Epicormic removal. Crown lift to 3 metres
NT5	Birch *(Betula sp.)*	Tree	Stem Diam(mm): 510 Crown Clearance (m): 2.5 Life Stage: Semi Mature Rem. Contrib.: 40+ Years	No significant defects	B1,2	Radius: 6.1m. Area: 117 sq m.	Physiological Cond: Good Structural Cond: Good Public Visual Amenity value: High	No action required.
NT6	Birch *(Betula sp.)*	Tree	Stem Diam(mm): 440 Crown Clearance (m): 2.5 Life Stage: Semi Mature Rem. Contrib.: 40+ Years	No significant defects	B1,2	Radius: 5.3m. Area: 88 sq m.	Physiological Cond: Good Structural Cond: Good Public Visual Amenity value: High	No action required.
NT7	Birch *(Betula sp.)*	Tree	Stem Diam(mm): 210 Crown Clearance (m): 2 Life Stage: Semi Mature Rem. Contrib.: 40+ Years	Crown - low branches Trunk - epicormics/suckers	B1,2	Radius: 2.5m. Area: 20 sq m.	Physiological Cond: Good Structural Cond: Good Public Visual Amenity value: High	Crown lift to 3 metres Epicormic removal
NT8	Birch *(Betula sp.)*	Tree	Stem Diam(mm): 380 Crown Clearance (m): 2 Life Stage: Semi Mature Rem. Contrib.: 40+ Years	Crown - low branches	B1,2	Radius: 4.6m. Area: 66 sq m.	Physiological Cond: Good Structural Cond: Good Public Visual Amenity value: High	Crown lift to 3 metres
NT9	Alder *(Alnus sp.)*	Tree	Stem Diam(mm): 300 Crown Clearance (m): 2 Life Stage: Semi Mature Rem. Contrib.: 40+ Years	Trunk - epicormics/suckers Crown - low branches	B1,2	Radius: 3.6m. Area: 41 sq m.	Physiological Cond: Good Structural Cond: Good Public Visual Amenity value: High	Crown lift to 3 metres Epicormic removal Adjacent Hazel to be laterally pruned
NT10	Alder *(Alnus sp.)*	Tree	Stem Diam(mm): 220 Crown Clearance (m): 2 Life Stage: Semi Mature Rem. Contrib.: 40+ Years	Trunk - epicormics/suckers Crown - low branches Trunk - surface bark wound	B1,2	Radius: 2.6m. Area: 21 sq m.	Physiological Cond: Good Structural Cond: Good Public Visual Amenity value: High	Crown lift to 3 metres Epicormic removal

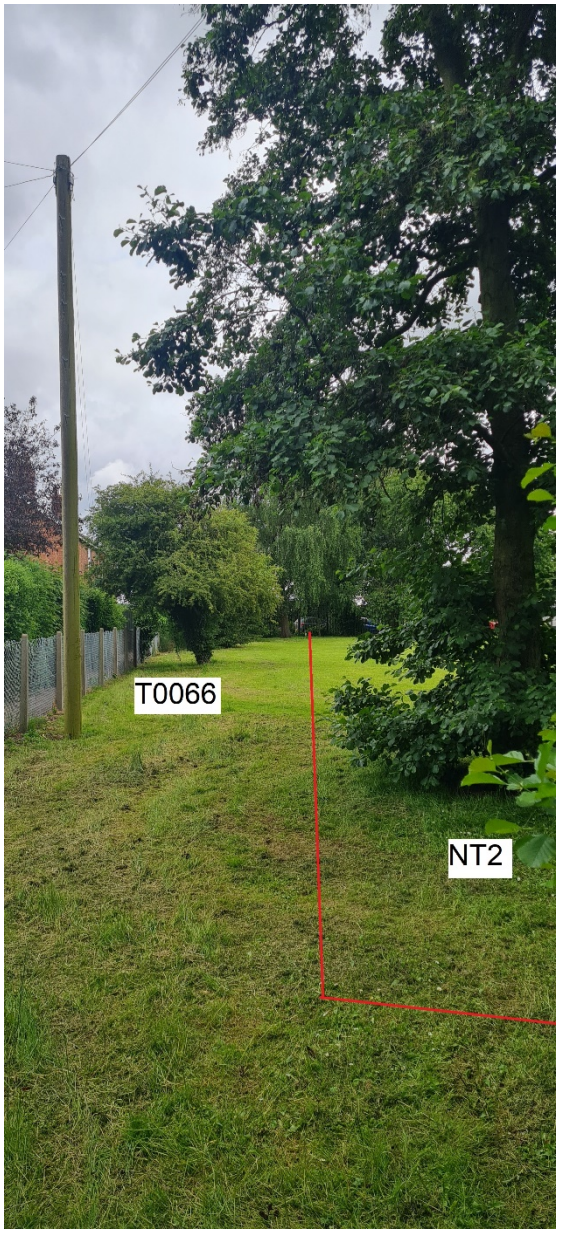
Ref.	Species	Full Structure	Measurements	Survey Notes	Retention Category	RPA	Condition	Recommendations
NT11	Alder *(Alnus sp.)*	Tree	Stem Diam(mm): 230 Crown Clearance (m): 2 Life Stage: Semi Mature Rem. Contrib.: 40+ Years	Trunk - epicormics/suckers Crown - low branches	B1,2	Radius: 2.8m. Area: 25 sq m.	Physiological Cond: Good Structural Cond: Good Public Visual Amenity value: High	Crown lift to 3 metres Epicormic removal
G1	Mixed broadleaves	Group	Stem Diam(mm): 250 Crown Clearance (m): 0 Life Stage: Semi Mature Rem. Contrib.: 40+ Years	Dimensions estimated and averaged. Single Hawthorn within group. Maple, Hazel and Birch - these are all offsite. Unable to survey effectively due to vegetation, mainly Bramble, Elder and Ivy within site.	B1,2	Area: 204 sq m.	Physiological Cond: Fair Structural Cond: Fair Public Visual Amenity value: High	Remove Hawthorn crown lift to 3 metres
NT12	Birch *(Betula sp.)*	Tree	Stem Diam(mm): 320 Crown Clearance (m): 0.5 Life Stage: Semi Mature Rem. Contrib.: 40+ Years	Crown - low branches	B1,2	Radius: 3.8m. Area: 45 sq m.	Physiological Cond: Good Structural Cond: Good Public Visual Amenity value: High	Crown lift to 3 metres
NT13	Birch *(Betula sp.)*	Tree	Stem Diam(mm): 350 Crown Clearance (m): 0.5 Life Stage: Semi Mature Rem. Contrib.: 40+ Years	Crown - low branches	B1,2	Radius: 4.2m. Area: 55 sq m.	Physiological Cond: Good Structural Cond: Good Public Visual Amenity value: High	Crown lift to 3 metres
NT14	Birch *(Betula sp.)*	Tree	Stem Diam(mm): 270 Crown Clearance (m): 1.5 Life Stage: Semi Mature Rem. Contrib.: 40+ Years	Crown - low branches	B1,2	Radius: 3.2m. Area: 32 sq m.	Physiological Cond: Good Structural Cond: Good Public Visual Amenity value: High	Crown lift to 3 metres

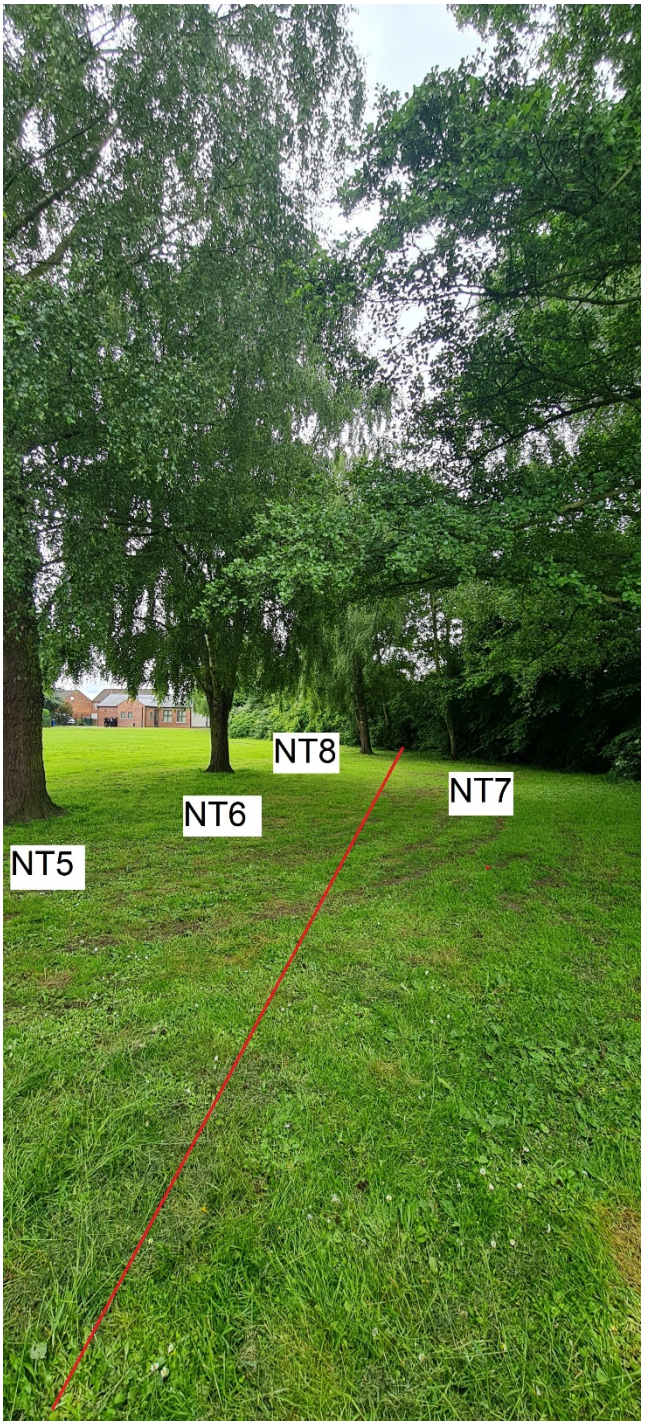
Appendix 2 - Tree Constraints/Arb Impact Assessment Plan

South Lincs Academy Trust Proposed new fence line Thomas Cowley Academy	Page size: A4 1 : 500 0 10 m 20 m	N	East Midlands Tree Surveys Ltd



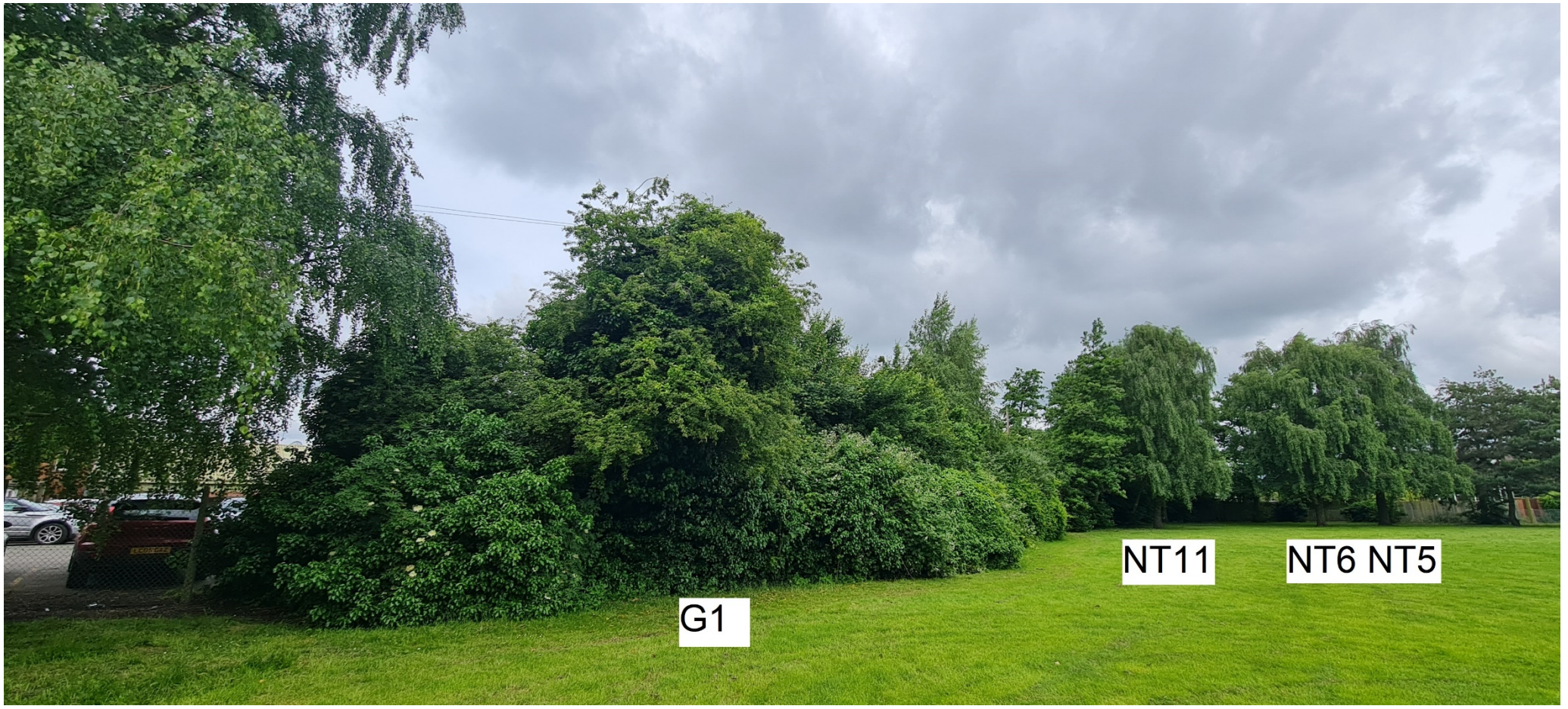
Appendix 3. Site photos







East Midlands
Tree Surveys



East Midlands
Tree Surveys